

10/729,207

L Number	Hits	Search Text	DB	Time stamp
1	5	cyclometallated adj complex	USPAT; US-PGPUB; EPO; JPO	2004/08/23 11:34
2	0	(cyclometallated adj complex) and organozinc	USPAT; US-PGPUB; EPO; JPO	2004/08/23 11:35

10/729,207

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FILE COVERS 1907 - 23 Aug 2004 VOL 141 ISS 9
FILE LAST UPDATED: 22 Aug 2004 (20040822/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s organometallic cyclometallated complex
      41267 ORGANOMETALLIC
      199 CYCLOMETALLATED
      1151356 COMPLEX
L1      0 ORGANOMETALLIC CYCLOMETALLATED COMPLEX
      (ORGANOMETALLIC(W) CYCLOMETALLATED(W) COMPLEX)
```

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      199 CYCLOMETALLATED
L2      0 ORGANOMETALLIC CYCLOMETALLATED
      (ORGANOMETALLIC(W) CYCLOMETALLATED)
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```
=> s cyclometallated complex
      199 CYCLOMETALLATED
      1151356 COMPLEX
L3      20 CYCLOMETALLATED COMPLEX
      (CYCLOMETALLATED(W) COMPLEX)
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```
=> s l3 and organozinc
      1330 ORGANOZINC
L4      0 L3 AND ORGANOZINC
```

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=> d l3 1-20 bib abs
```

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L3  ANSWER 1 OF 20  CAPLUS  COPYRIGHT 2004 ACS on STN
AN  2004:220632  CAPLUS
DN  140:261221
TI  Methods for producing full-color organic electroluminescent devices in
    which substrates do not require surface treatment prior to deposition of
    electroluminescent material
IN  Yu, Gang; Srdanov, Gordana; Stainer, Matthew
PA  E.I. Du Pont De Nemours and Company, USA
SO  PCT Int. Appl., 37 pp.
    CODEN: PIXXD2
DT  Patent
LA  English
FAN.CNT 1
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004023574	A1	20040318	WO 2003-US27424	20030828
	WO 2004023574	C1	20040429		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004094768	A1	20040520	US 2003-643255	20030818
PRAI	US 2002-408777P	P	20020906		
AB	<p>Methods for producing organic electroluminescent (EL) devices are described which entail providing a substrate, depositing an anode layer onto the substrate, establishing a plurality of discreet wells on the substrate, where the wells are formed by circumscribing walls to form the wells, depositing a buffer layer onto the anode layer in each of the wells, depositing an un-patterned EL host polymer layer into each of the wells, depositing at least one patterned dopant layer in at least one of the wells without prior surface treatment of the walls of the well, and depositing a cathode layer. Methods for producing a full-color, subpixelated organic electroluminescent (EL) device are also discussed as are devices fabricated using the title methods.</p>				
RE.CNT	3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				
L3	ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN				
AN	2003:864440 CAPLUS				
DN	140:146249				
TI	Reactions of N-(2-thienylmethylidene)-2-thienylmethylamine derivatives with diiron nonacarbonyl: characterization and structures of cyclometalated diiron complexes $\text{Fe}_2(\text{CO})_6(\text{R-C}_4\text{HS-CH}_2\text{NCH}_2\text{-C}_4\text{H}_3\text{S})$ and linear tetrairon clusters $\text{Fe}_4(\text{CO})_{10}(\text{R-C}_4\text{HS-CH:NCH}_2\text{-C}_4\text{H}_3\text{S})_2$				
AU	Tzeng, Yu-Fun; Wu, Chih-Yu; Hwang, Wen-Shu; Hung, Chen-Hsiung				
CS	Department of Chemistry, National Dong Hwa University, Taichung, Taiwan				
SO	Journal of Organometallic Chemistry (2003), 687(1), 16-26 CODEN: JORCAI; ISSN: 0022-328X				
PB	Elsevier Science B.V.				
DT	Journal				
LA	English				
AB	<p>The reaction of N-(2-thienylmethylidene)-2-thienylmethylamine (1) with $\text{Fe}_2(\text{CO})_9$ under mild conditions in anhydrous benzene yields the Fe carbonyl products 2, 3, and 4. Complex 2 is a cyclometalated complex $\text{Fe}_2(\text{CO})_6(\text{R-C}_4\text{HS-CH}_2\text{NCH}_2\text{-C}_4\text{H}_3\text{S})$, in which the organic ligand is $(\mu\text{-}\eta^1\text{:}\eta^2\text{-thienyl } \beta\text{-C, } \alpha, \beta\text{-C:C; } \eta^1\text{:}\eta^1\text{-N)})$-coordinated to the diiron center. Complexes 3 and 4 are novel linear tetrairon complex isomers $\text{Fe}_4(\text{CO})_8(\mu\text{-CO})_2(\text{R-C}_4\text{HS-CH:NCH}_2\text{-C}_4\text{H}_3\text{S})_2$, in which the two organic ligands are $(\mu\text{-}\eta^1\text{-thienyl } \beta\text{-C: } \eta^1\text{-N; } \eta^2\text{-thienyl } \alpha, \beta\text{-C:C: } \eta^2\text{-C:N})$-coordinated to two diiron centers, resp. These complexes were well characterized spectrally. The mol. structures of 1a, 2a, 2b, 3a, and 3b were determined by x-ray diffraction. The linear arrangement of the four Fe atoms in the 66e clusters 3 and 4 is consistent with the closed valance MO (CVMO) theory. Complexes 3 and 4 may be viewed as consisting of a central $\text{Fe}_2(\text{CO})_2(\mu\text{-CO})_2$ core to which two $\eta^5\text{-azaferrocyclopentadienyl}$ fragments are coordinated; hence 3 and 4 are isolobally-related analogs of $[\text{CpFe}(\text{CO})(\mu\text{-CO})]_2$. Thermal reaction of 3 or 4 in hexane, benzene, or</p>				

MeCN leads to the decomposition of the complex. No interconversion between isomers 3 and 4 was observed

RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:689236 CAPLUS

DN 138:106801

TI The first crystal and molecular structure of a syn-acetato-bridged dinuclear **cyclometallated complex** [Pd{2,3,4-(MeO)3C6HC(H):NCH2CH2OH}(μ-OAc)]2

AU Fernandez, Alberto; Vazquez-Garcia, Digna; Fernandez, Jesus J.; Lopez-Torres, Margarita; Suarez, Antonio; Castro-Juiz, Samuel; Vila, Jose M.

CS Departamento de Quimica Fundamental, Universidad de La Coruna, La Coruna, 15071, Spain

SO European Journal of Inorganic Chemistry (2002), (9), 2389-2401
CODEN: EJICFO; ISSN: 1434-1948

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

OS CASREACT 138:106801

AB Treatment of the Schiff base ligands 2,3,4-(MeO)3C6H2CH:NR (R = CH2CH2OH, 1, L1; Me, 17; Et, 18; Pr, 19; tBu, 20) with palladium(II) acetate in toluene gave the dinuclear cyclometalated complexes [Pd{2,3,4-(MeO)3C6H(CH:NR)}(μ-O2CMe)]2 (R = CH2CH2OH, 2; Me, 21; Et, 22; Pr, 23; tBu, 24), with the ligand bonded to the palladium atom through the imine nitrogen and the C-6 carbon atoms. The 1H and 13C{1H} NMR spectra of the complexes showed the presence of the anti and syn isomers in solution. The anti/syn ratio varies with the solvent and the nature of the imine nitrogen substituent R. Complex 24 with the bulky tBu group showed a 28:1 anti/syn ratio in chloroform while the less bulky substituted complexes showed lower ratios. The x-ray crystal structure of the syn isomer of complex 2 is described. Reaction of the acetato-bridged complex 2 with PPh3 gave the mononuclear complex [Pd(L1-κC6,κN)(OAc)(PPh3)] 4, in a bridge-splitting reaction. Reaction of 2 with one equiv of diphosphine dppm, dppp and dppb gave the dinuclear cyclometalated complexes [{Pd(L1-κC6,κN)(OAc)}2(μ-diphosphine)] 5, 6 and 7, resp. Treatment of 2 with an aqueous solution of sodium chloride gave the cyclometalated μ-chloro complex [Pd(L1-κC6,κN)(μ-Cl)]2 (3). Treatment of 3 with PPh3 in acetone yielded the mononuclear complex [Pd(L1-κC6,κN)Cl(PPh3)] 8, and reaction of 8 with silver triflate gave the cyclometalated complex [Pd(L1-κC6,κN,κO)(PPh3)][OTf] (9), with the palladium atom bonded to four different atoms C, N, O and P. Treatment of 3 by 1 equiv of dppp, dppb and dppf (P-P) gave the dinuclear complexes [{Pd(L1-κC6,κN)Cl}2(μ-(P-P))] 10, 11 and 12, resp., with μ-diphosphine and terminal chloride ligands. However, reaction of 3 with the small bite-angle diphosphine dppm gave [{Pd(L1-κC6,κN)}2(μ-Cl)(μ-dppm)] 13, with a bridging chloride ligand. Reaction of 11 with silver triflate in acetone gave the new dinuclear complex [{Pd(L1-κC6,κN,κO)}2(μ-dppb)][OTf]2 14, with the Schiff base ligand as [C,N,O] tridentate. Reaction of 3 with the 2 equiv of dppe and silver perchlorate gave the mononuclear complex [Pd(L1-κC6,κN)(dppe)][ClO4] 15 with chelating diphosphine. Treatment of 3 with Ph2PCH2CH2PPhCH2CH2PPh2 (triphos) in a 1:2 molar ratio, followed by sodium perchlorate, gave [Pd(L1-κC6,κN)(triphos-κP,κP',κP'')][ClO4] 16, in which the pentacoordinated palladium atom was bonded to the triphosphine through the three phosphorus atoms. The x-ray crystal structures of complexes 8, 9, 15 and 16 are also reported.

RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:417332 CAPLUS
 DN 135:53380
 TI Complexes of form L2MX as phosphorescent dopants for organic LEDs
 IN Thompson, Mark E.; Djurovich, Peter; Lamansky, Sergey; Murphy, Drew;
 Kwong, Raymond; Abdel-Razzaq, Feras; Forrest, Stephen R.; Baldo, Marc A.;
 Burrows, Paul E.
 PA Trustees of Princeton University, USA; University of Southern California
 SO PCT Int. Appl., 88 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001041512	A1	20010607	WO 2000-US32511	20001129
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1252803	A1	20021030	EP 2000-980863	20001129
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003515897	T2	20030507	JP 2001-541304	20001129
PRAI	US 1999-452346	A	19991201		
	WO 2000-US32511	W	20001129		
OS	MARPAT 135:53380				
AB	Organic light-emitting devices are described in which an emitter layer comprises compds. (e.g., as dopants within a host) which are described by the general formula L2MX (L and X are inequivalent bidentate ligands; and M is a metal which forms octahedral complexes). Devices with emitter layers comprising phosphorescent compds. described by the general formula LL'L'M (L, L', and L" = inequivalent bidentate ligands) and comprising L'''2M (L''' = a monoanionic bidentate ligand coordinated to M through an sp ² carbon and a heteroatom; and wherein the heteroatoms of the two L ligands are in a trans configuration) are also described. The preparation of L2MX by combining a bridged dimer described by the general formula L2M(μ-Cl)2ML2 with a Bronsted acid XH to make an organometallic complex of formula LMX is also described. Synthetic options allow insertion of fluorescent mols. into a phosphorescent complex, ligands to fine tune the color of emission, and ligands to trap carriers. 3-Methoxy-2-phenylpyridine.				

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:249081 CAPLUS
 DN 132:347331
 TI Unidentate coordination of 2,2'-bipyridine and 1,10-phenanthroline in a cyclometallated rhodium(III) complex. Evidence from 1H and 13C NMR spectra
 AU Naganagowda, G. A.; Ramanathan, K. V.; Gayathri, V.; Gowda, N. M. Nanje
 CS Sophisticated Instruments Facility, Indian Institute of Science, Bangalore, 560 012, India
 SO Magnetic Resonance in Chemistry (2000), 38(4), 223-228
 CODEN: MRCHEG; ISSN: 0749-1581

PB John Wiley & Sons Ltd.
DT Journal
LA English

AB The binuclear **cyclometallated complex**
[RhCl(μ -Cl)(bBzlH2bz)]₂ [bBzlH2bzH = 1,3-bis(benzimidazolyl)benzene] undergoes a dichloro bridge cleavage reaction with 2,2'-bipyridine (bipy) or 1,10-phenanthroline (phen) in the presence of perchlorate to yield a mononuclear complex of the type RhCl(OCIO₃)(bBzlH2bz)(N-N) (N-N = bipy or phen) [Gayathri, V.; Leelamani, E.G.; Godwa, N.M.N.; Reddi, G.K.N. Polyhedron (1999) 18, 2351]. Surprisingly, the N-heterocycle, bipy or phen, is neither chelating nor bridging bidentate in the complex. Such a monodentate coordination of bipy or phen was detected using two-dimensional 1H-1H correlated and NOE expts. (DQF-COSY and ROESY), 1H-13C single- and multiple-bond correlated two-dimensional NMR expts. (PFG-HSQC and PFG-HMBC) and 1H,13C spin-lattice relaxation time measurements. The non-coordination of the pendant nitrogen of the heterocycle bipy or phen is evidenced by the observation of two sets of signals together with the presence of interligand NOEs only between the coordinated part of the heterocycle and the bisbenzimidazole as seen in the corresponding ROESY spectrum. Further, the 1H and 13C spin-lattice relaxation times show lower values for the nuclei in the coordinated part of the heterocycle, bipy or phen, than for the uncoordinated parts, supporting the fact that only one of the two nitrogens of the heterocycle has coordinated to the metal and thus behaves as monodentate ligand.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:140358 CAPLUS
DN 132:308473

TI Photo-assisted formation of a chelating diphos ligand from PPh₃ and a cyclometallated [P(C₆H₄)(C₆H₅)₂]- ligand. Crystal structure of Pd(η ²-o-[P(C₆H₅)₂]₂(C₆H₄))Br₂

AU Estevan, Francisco; Garcia-Bernabe, Abel; Lahuerta, Pascual; Sanau, Mercedes; Ubeda, M. Angeles; Galan-Mascaros, Jose R.

CS Departament de Quimica Inorganica, Universitat de Valencia, Burjassot, Valencia, E-46100, Spain

SO Journal of Organometallic Chemistry (2000), 596(1-2), 248-251
CODEN: JORCAI; ISSN: 0022-328X

PB Elsevier Science S.A.

DT Journal

LA English

AB The cyclometalated Pd compound, BrPd(η ²-C₆H₄PPh₂-o)(PPh₃) (1), in the solid state by action of light, evolves to give Br₂Pd(η ²-1,2-(Ph₂P)₂C₆H₄) (2), which was characterized by x-ray crystallog.. 2 Contains the diphosphine, o-(Ph₂P)₂C₆H₄, as chelated ligand that is formed by a couple reaction of the metalated ligand η ²-(C₆H₄PPh₂)- and the coordinated arylphosphine. A study by NMR spectroscopy confirms that the o-phenylene bridge in the diphosphine ligand in 2 comes from the metalated phosphine ligand in 1.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:718026 CAPLUS
DN 132:64386

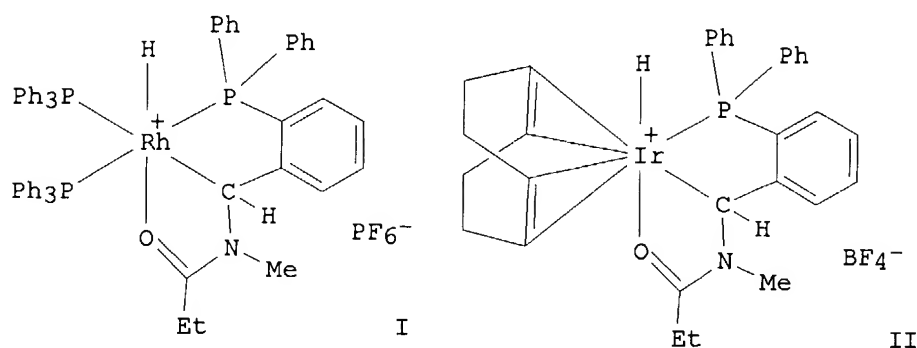
TI X-ray Diffraction Studies of Group 9 Transition-Metal Complexes Containing an sp³ C-H Activated Functionalized Triphenylphosphine

AU Sjoevall, Sven; Svensson, Per H.; Andersson, Carlaxel

CS Inorganic Chemistry 1 Centre for Chemistry and Chemical Engineering, Lund University, Lund, S-221 00, Swed.

SO Organometallics (1999), 18(25), 5412-5415

PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 132:64386
 GI



AB Treatment of the hemilabile tertiary phosphino amide o-Ph₂PC₆H₄CH₂N(Me)C(O)Et (DPPBA; 1) with the appropriate Rh(I) or Ir(I) precursor complex results in cyclometalation by oxidative addition of the benzylic C-H bond to the metal center. The solution structures of the two synthesized complexes [RhH(PPh₃)₂(DPPBA)][PF₆] (I) and [IrH(1,5-COD)(DPPBA)][BF₄] (II) were unambiguously identified by various NMR spectroscopic techniques. Also, single-crystal x-ray diffraction studies were performed for I (space group = P1.hivin., dc = 1.478, Z = 2) and II (space group = P1.hivin., dc = 1.669, Z = 2). These are the 1st crystal structures obtained with DPPBA as a ligand, giving final confirmation of the capability of 1 to tris chelate in Pt group metal complexes.

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:591029 CAPLUS
 DN 132:22719
 TI Highly active PdII cyclometallated imine catalyst for the Suzuki reaction
 AU Weissman, Haim; Milstein, David
 CS Department of Organic Chemistry, The Weizmann Institute of Science, Rehovot, Israel
 SO Chemical Communications (Cambridge) (1999), (18), 1901-1902
 CODEN: CHCOFS; ISSN: 1359-7345
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB The cyclopalladated, phosphine-free imine complex [PdL(O₂CCF₃)₂] (1; HL = PhCMe:NiPr) is an excellent catalyst for the Suzuki cross-coupling, leading to >105 turnovers with nonactivated aryl bromides. The catalyst is air and thermally stable.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:136095 CAPLUS
 DN 130:267560
 TI The synthesis and photophysical characterization of cyclometallated rhodium(III) and cobalt(III) complexes

AU Dedeian, Kenneth
 CS Univ. of California, Santa Barbara, CA, USA
 SO (1998) 237 pp. Avail.: UMI, Order No. DA9839727
 From: Diss. Abstr. Int., B 1999, 59(7), 3431
 DT Dissertation
 LA English
 AB Unavailable

L3 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:298141 CAPLUS
 DN 126:343664
 TI Novel dinuclear cyclometallated complexes of palladium(II) derived from N,N-(2,5-dichloro)terephthalylidenebis(cyclohexylamine) via oxidative addition
 AU Vila, Jose M.; Gayoso, Miguel; Pereira, M. Teresa; Lopez, Margarita; Fernandez, Jesus J.; Fernandez, Alberto; Ortigueira, Juan M.
 CS Dep. Inorg. Chem., Univ. Santiago, Santiago Compostela, E-15706, Spain
 SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1997), 623(5), 844-848
 CODEN: ZAACAB; ISSN: 0044-2313
 PB Barth
 DT Journal
 LA English/Spanish
 AB The oxidative addition of the bidentate Schiff base 1,4-(CyN:CH)2-2,5-Cl2C6H2 to tris(dibenzylideneacetone)dipalladium(0) gave the dicyclopalladated complex [cyclic] [(Cl)PdN(Cy):C(H)C6H2C(H):N(Cy)Pd(Cl)]_n (1). Treatment of 1 with LiBr gave the analogous bromo derivative [(Br)PdN(Cy):C(H)C6H2C(H):N(Cy)Pd(Br)]_n (2). Reaction of 1 or of 2 with tertiary phosphines in 1:2 or 1:4 molar ratios gave the dinuclear cyclometallated [(L)(X)PdN(Cy):C(H)C6H2C(H):N(Cy)Pd(X)(L)] (3-9), and non-cyclometallated complexes [(L)2(X)PdN(Cy):C(H)C6H2C(H):N(Cy)Pd(X)(L)2] (10-14) (X = Cl, Br; L = PPh3, PEtPh2, PEt2Ph, PMePh2, as appropriate), resp. Treatment of 1 or of 2 with thallium acetylacetonate gave the dinuclear **cyclometallated complex** [(MeCOCHCOMe)PdN(Cy):C(H)C6H2C(H):N(Cy)Pd(MeCOCHCOMe)].

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:688038 CAPLUS
 DN 126:53093
 TI C,N,N-Cyclometallated palladium(II) complexes: a step forward to luminescent metallomesogens
 AU Neve, Francesco; Ghedini, Mauro; Crispini, Alessandra
 CS Dip. Chim., Univ. Calabria, Arcavacata di Rende, I-87030, Italy
 SO Chemical Communications (Cambridge) (1996), (21), 2463-2464
 CODEN: CHCOFS; ISSN: 1359-7345
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB Cyclopalladation of 4'-functionalized 6'-phenyl-2,2'-bipyridine ligands (HL_n, n = 1-3) leads to [PdLnCl] species as demonstrated by the crystal structure of [PdL1Cl]; thermotropic nematic mesomorphism is observed for HL3 and [PdL3Cl]; the latter is also photoluminescent at 77 K.

L3 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:527069 CAPLUS
 DN 125:264443
 TI A luminescent iridium(III) **cyclometallated complex** immobilized in a polymeric matrix as a solid-state oxygen sensor
 AU Di Marco, Gaetano; Lanza, Maurizio; Pieruccini, Marco; Campagna, Sebastiano
 CS Ist. Tec. Spettroscopiche, Messina, I-98166, Italy
 SO Advanced Materials (Weinheim, Germany) (1996), 8(7), 576-580

CODEN: ADVMEW; ISSN: 0935-9648

PB VCH

DT Journal

LA English

AB The polymer-immobilized Ir complex [Ir(ppy)₂(dpt-NH₂)](PF₆) (ppy = phenylpyridine, dpt-NH₂ = 4-amino-3,5-di-2-pyridyl-4 H-1,2,4-triazole) was prepared and the photo- and electroluminescence properties with regard to its use as an O₂ sensor were studied. The macromonomer poly(ethyleneglycol) Et ether methacrylate was polymerized (yielding amorphous pPEGMA) and used as the matrix. The dynamic modulus and internal friction of pPEGMA were measured. The response behavior of the luminescence output on cycling between N-saturated and O-saturated atmospheric was shown. No degradation of the system was observed over 3 mo.

L3 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:722154 CAPLUS

DN 123:256965

TI Structure of a C,N,N-cyclometallated palladium(II) complex of 2-amino-4-phenylamino-6-(2-pyridyl)-1,3,5-triazine, an α -diimine ligand with donor-acceptor-donor hydrogen-bonding capability

AU Chan, Chin-Wing; Mingos, Michael P.; White, Andrew J. P.; Williams, David J.

CS Dep. Chem., Imp. Coll. Sci., Technol. Med., London, SW7 2AY, UK

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1995), (14), 2469-71

CODEN: JCOTBI; ISSN: 0300-9246

PB Royal Society of Chemistry

DT Journal

LA English

AB A new class of (2,4-diamino-1,3,5-triazinyl)pyridine ligand has been made and its cyclopalladation reaction with palladium(II) studied; the crystal structure of the C,N,N-cyclometallated complex reveals a rigid planar structure with donor-acceptor-donor hydrogen-bonding function on its surface.

L3 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:496293 CAPLUS

DN 123:144192

TI Metal complexes of biologically important ligands: synthesis of amino acidato complexes of Pd(II) containing a C,N-cyclometallated group as an ancillary ligand

AU Navarro, R.; Garcia, J.; Urriolabeitia, E. P.; Cativiela, C.; Diaz-de-Villegas, M. D.

CS Departamento de Quimica Inorganica, Instituto de Ciencia de Materiales de Aragon, Universidad de Zaragoza - CSIC, Zaragoza, 50009, Spain

SO Journal of Organometallic Chemistry (1995), 490(1-2), 35-43

CODEN: JORCAI; ISSN: 0022-328X

PB Elsevier

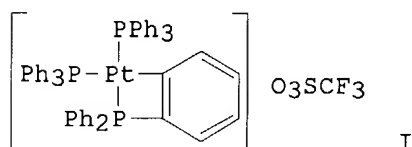
DT Journal

LA English

OS CASREACT 123:144192

AB New amino acidato complexes of Pd(II) of stoichiometry [Pd(C-N)(Aa)] (C-N = C,N-cyclometallated ligand, Aa = N,O-amino acidato ligand) have been obtained by reaction of [Pd(C-N)(acac)] (C-N = N,N-dimethylbenzylamine-C₂,N (dmba) or N,N-dimethyl(S- α -phenylethyl)amine-C₂,N (S-dmphea)) with glycine, chiral amino acids (alanine, phenylalanine and valine), and amino acid derivs. (N-acetylglutamine and N-acetyl- α , β -dehydroalanine) in MeOH. The compds. are characterized by IR, ¹H and ¹³C NMR. The geometry of these complexes has been unambiguously determined by NOE difference expts. and NOESY measurements.

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:323809 CAPLUS
 DN 120:323809
 TI Simple cycloplatination of triphenylphosphine
 AU Scheffknecht, Christoph; Rhomberg, Andrew; Mueller, Ernst P.; Peringer, Paul
 CS Institut fuer Anorganische und Analytische Chemie der Universitaet
 Innsbruck, Innrain 52a, Innsbruck, A-6020, Austria
 SO Journal of Organometallic Chemistry (1993), 463(1-2), 245-8
 CODEN: JORCAI; ISSN: 0022-328X
 DT Journal
 LA English
 OS CASREACT 120:323809
 GI



AB The reaction of $[\text{PtCl}(\text{PPh}_3)_3]\text{Cl}$ with AgO_3SCF_3 in $\text{CHCl}_3/\text{MeOH}$ at ambient temperature gives **cyclometallated complex I** in quant. yield within a few minutes. The complex I has been characterized by ^1H , ^{13}C , ^{31}P and ^{195}Pt NMR spectroscopies. Complete ^1H and ^{13}C assignments have been made by use of various one- and two-dimensional NMR techniques.

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:8728 CAPLUS
 DN 120:8728
 TI Solvent effects in the reactions of 6-phenyl-2,2'-bipyridine with ruthenium(II)
 AU Constable, Edwin C.; Hannon, Michael J.
 CS Cambridge Centre for Molecular Recognition, University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW, UK
 SO Inorganica Chimica Acta (1993), 211(1), 101-10
 CODEN: ICHAA3; ISSN: 0020-1693
 DT Journal
 LA English
 OS CASREACT 120:8728

AB The reaction of $[\text{Ru}(\text{tpy})\text{Cl}_3]$ ($\text{tpy} = 2,2':6',2''\text{-terpyridyl}$) with the potentially cyclometalating ligand 6-phenyl-2,2'-bipyridine (HL) has been examined in a variety of solvents. In glacial acetic acid the ligand acts as a substituted 2,2'-bipyridine and reacts to give the complex cation $[\text{Ru}(\text{tpy})(\text{HL})\text{Cl}]^+$, containing a bidentate N, N'-bonded HL ligand. The structure of this complex has been unambiguously established from its ^1H NMR spectrum. In contrast, the use of water as a solvent gives the **cyclometallated complex** cation $[\text{Ru}(\text{tpy})(\text{L})]^+$. In methanol and 1-butanol, mixts. of these two products are formed. The work has been extended to 2,2':6',2''-terpyridyl with aromatic substituents in the 4'-position and the complexes have been characterized by ^1H NMR, electronic and FAB mass spectroscopic techniques and also by cyclic voltammetry.

L3 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:504903 CAPLUS
 DN 119:104903

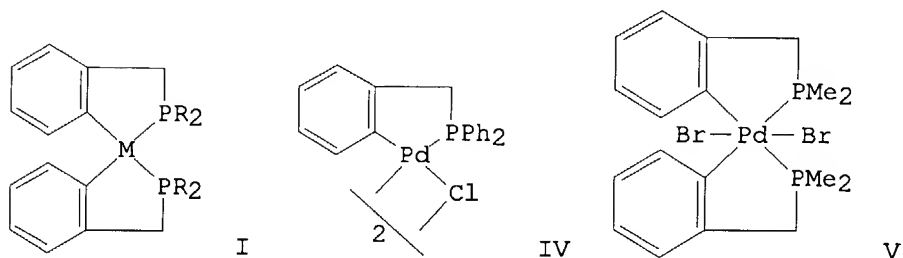
TI Electrochemical and spectroelectrochemical study of cyclometallated platinum derivatives with nitrogen ligands. Electrogeneration of monomeric reduced platinum species
 AU Minghetti, G.; Pilo, M. I.; Sanna, G.; Seeber, R.; Stoccoro, S.; Laschi, F.
 CS Dipartimento di Chimica, Universita di Sassari, Via Vienna 2, Sassari, 07100, Italy
 SO Journal of Organometallic Chemistry (1993), 452(1-2), 257-61
 CODEN: JORCAI; ISSN: 0022-328X
 DT Journal
 LA English
 AB The cathodic reduction of [LPtCl] and [LPtL'](BF₄) [HL = 6-(1-methylbenzyl)-2,2'-bipyridine and L' = PPh₃, pyridine, or MeCN] was studied in MeCN and CH₂Cl₂ solvents. The main goal was that of defining the nature and reactivity of the corresponding relatively stable 1-electron reduced forms. In particular, X-band EPR spectrometry has allowed one to obtained information about the character (metal- or ligand-based) of the unpaired extra electron of the reduced species.

L3 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:595052 CAPLUS
 DN 111:195052
 TI Neutral and cationic orthopalladated (C-N) complexes [C-N = phenylazophenyl, dimethylbenzylamine, 8-methylquinoline, 2-methoxy-3-(N,N-dimethylamino)propyl]
 AU Fornies, Juan; Navarro, Rafael; Sicilia, Violeta
 CS Inst. Cienc. Mater. Aragon, Univ. Zaragoza, Zaragoza, 50009, Spain
 SO Polyhedron (1988), 7(24), 2659-65
 CODEN: PLYHDE; ISSN: 0277-5387
 DT Journal
 LA English
 AB By reacting [Pd(C-N)(μ-Cl)]₂ with AgClO₄ in NCMe, the corresponding cationic complexes [Pd(C-N)(NCMe)₂]ClO₄ (C-N = phenylazophenyl-C₂N₁; dimethylbenzylamine-C₂N₁; 8-methylquinoline-C₈N₁) can be obtained. Solns. containing the cations [Pd(C-N)(S)₂]⁺ are obtained when the reaction is carried out in THF or Me₂CO. The treatment of these solns. with bidentate ligands (L-L) [Ph₂PCH₂PPh₂, Ph₂PNHPPH₂ or Ph₂PCH₂PPh₂CHC(O)Ph] gives the mononuclear [Pd(C-N)(L-L)]ClO₄ complexes, with L-L acting as a chelate ligand. On the other hand, [Pd(C-N)(μ-Cl)]₂ reacts with L-L (Ph₂PCH₂PPh₂, Ph₂PNHPPH₂) yielding [Pd(C-N)Cl(L-L)] with L-L acting as monodentate. The reactions between [Pd(C-N)(NCMe)₂]ClO₄ and 2,2'-bipyrimidyl form mononuclear [Pd(C-N)(bipym)]ClO₄ or binuclear [Pd₂(C-N)₂(μ-bipym)](ClO₄)₂, [(C-N)Pd(μ-bipym)Pd(C'-N')](ClO₄)₂ derivs. Finally, [Pd(C-N)Cl(dppm)] (dppm = Ph₂PCH₂PPh₂) react with NaH producing the neutral complexes [Pd(C-N)(ddppm)] (ddppm = Ph₂PCHPPH₂) which by reaction with HCl lead again to the starting materials, [Pd(C-N)Cl(dppm)].

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1985:471468 CAPLUS
 DN 103:71468
 TI Reactions of cyclometalated compounds of palladium(II) with triphenylphosphine
 AU Suarez, A.; Vila, J. M.; Pereira, M. T.; Filgueira, J.; Gayoso, E.; Gayoso, M.
 CS Fac. Quim., Univ. Santiago de Compostela, Spain
 SO Acta Cientifica Compostelana (1983), 20(1-2), 55-64
 CODEN: ACCCAW; ISSN: 0567-7378
 DT Journal
 LA Spanish
 AB The reactions of bridged acetato, chloro, and bromo cyclometallated complexes of Pd(II) and benzylidene-2,4,6-trimethylaniline,

4-methylbenzylidene-2,4,6-trimethylaniline and 2,5-dimethylbenzylidene-2,4,6-trimethylaniline with PPh₃ in 1:2 and 1:4 molar ratio yield the cyclometallated and non-cyclometallated monomers, resp.

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1983:595194 CAPLUS
 DN 99:195194
 TI Reactivity of cyclometallated complexes of the type M[o-C₆H₄CH₂PR₂]₂ [M-P bond] (M = Pd, Pt) towards electrophilic compounds
 AU Abicht, H. P.; Issleib, K.
 CS Sekt. Chem., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, DDR-4020, Ger. Dem. Rep.
 SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1983), 500, 31-9
 CODEN: ZAACAB; ISSN: 0044-2313
 DT Journal
 LA German
 GI



AB The reactivity of cyclometallated complexes I [M = Pd, R = Ph (II), CMe₃; M = Pt, R = Ph, Me (III)] with electrophiles Br, HgX₂ (X = Br, OAc), and PdCl₂.2Et₂S was examined. Whereas the Pd complexes reacted with M-C bond cleavage, the Pt complexes underwent oxidative addition. Thus, II and HgBr₂ gave 85.7% IV, while III and Br gave 100% V.